WM-DD9

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model

Refer to MDR-E575 Service Manual issued previously for information of headphones supplied with this set.

Model Name Using Similar Mechanism	New Mechanism
Tape Transport Mechanism Type	MT-WMDD9-42

SPECIFICATIONS

Wow and flutter	± 0.22% W. Peak (DIN) 0.13% WRMS (NAB)
S/N ratio	48 dB
Total harmonic distortion	1.0%
Frequency response (DOLBY NR off)	20 – 20,000 Hz
Output	Earphones jack, load impedance 8 – 300 ohms
Power output	5 mW + 5 mW at DC operation (16 ohms)
Power requirements	1.5 V DC Rechargeable battery One R6 (size AA) battery DC IN 1.5 V jack accepts: Sony power adaptor (not supplied) Sony EBP-500B battery case (not supplied) for use with two R6 (size AA) batteries Sony DCC-70 car battery cord (not supplied) for use with 12 V car battery

Battery life

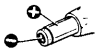
Battery	Playback
Rechargeable NC-6WM fully charged	Approx. 2.5 hours
Sony battery SUM-3 (NS)	Approx. 1 hour
Sony alkaline battery AM3 (N)	Approx. 5.5 hours

For maximum performance, we recommend the use of alkaline batteries.

Dimensions	Approx. 76.8 × 108 × 28.3 mm (w/h/d) ($3^1/_8 \times 4^3/_8 \times 1^1/_8$ inches) not incl. projecting parts and controls Approx. 77.7 × 109.2 × 33.1 mm (w/h/d) ($3^1/_8 \times 4^3/_8 \times 1^{15}/_{16}$ inches) incl. projecting parts and controls
Weight	Approx. 330 g (12 oz) incl. rechargeable battery not incl. other accessories
Accessories supplied	Carrying case (1) Battery charger (1) Rechargeable battery (1) Stereo earphones (open-air type, 1) Earphones case (1) Ear adaptor (2)

Design and specifications subject to change without notice.

Note: Use only the recommended AC power adaptor or car battery cord manufactured by Sony.
Polarity of the plugs of other manufacturers may be different.



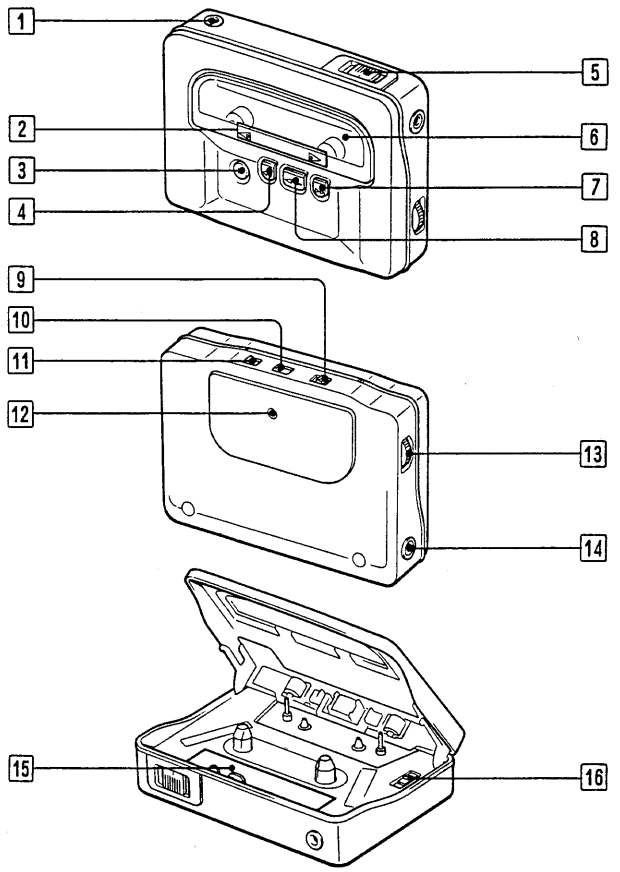
Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

STEREO CASSETTE PLAYER

SONY®

SECTION 1
GENERAL

Parts Identification



[1] DC IN 1.5 V (external power input) jack

[2] REV/FWD (battery/tape transport direction) indicator

[3] ■ STOP button

[4] ◀◀ (fast winding) button

[5] HOLD, OPEN FOR TAPE/BATT (battery) switch
Slide to HOLD to avoid an accidental operation. To open the cassette holder, slide to OPEN FOR TAPE/BATT. To open the battery compartment lid, slide again to OPEN FOR TAPE/BATT.

[6] Cassette holder

[7] ▶▶ (fast winding) button

[8] ◀ ▶ PLAY/DIR (play/tape transport direction change) button

[9] DOLBY NR (Dolby noise reduction) (C/B/OFF) selector

[10] MEGA BASS (MAX/MID/NORM) selector

[11] TAPE (NORM/CrO2, METAL) selector

[12] Hole for attaching the carrying case

[13] VOL (volume) control

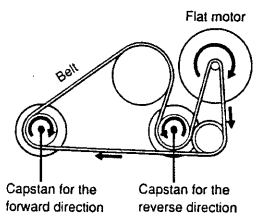
[14] Ω (earphones) jack (stereo minijack)

[15] Battery compartment lid

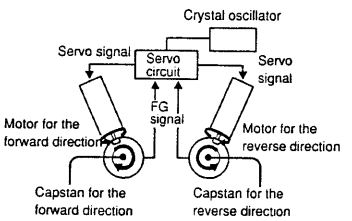
[16] MODE (tape transport mode) selector

- **Two-motor Disc Drive mechanism** and **Quartz lock capstan servo** assure accurate and stable tape transport, greatly reducing wow and flutter.
One motor is provided for the forward direction and another for the reverse direction. Since the rotation of motors is controlled by the accurate frequency of the quartz servo, distortion of the sound caused by the unit being moved is slight.

Drive system of normal auto-reverse Walkman



Drive system of WM-DD9



Notes on chip component replacement

Never reuse a disconnected chip component.
Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ℃ during repairing.
Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
Be careful not to apply force on the conductor when soldering or unsoldering.

SECTION 2
SERVICING NOTES

This set detects reel rotation by the PH701 (photo interrupter). Since the PH701 is mounted on the main board, if the main board is removed, the reel rotation cannot be detected and normal operation is not possible.
In addition, the S702 (FWD HEAD switch) and S703 (REV HEAD switch), which operate in tandem with the lever in the mechanical deck, are also mounted on the main board.
If the main board is removed, power supply for the playback circuit, battery level check and initial reset will not be possible.
Use the following method to perform a check of the mechanical deck operation and the voltage in a state that is the same as when the main board is attached. Be sure at this time to first turn the S505 (OPEN switch) on the sub board to the off state.

Initial reset

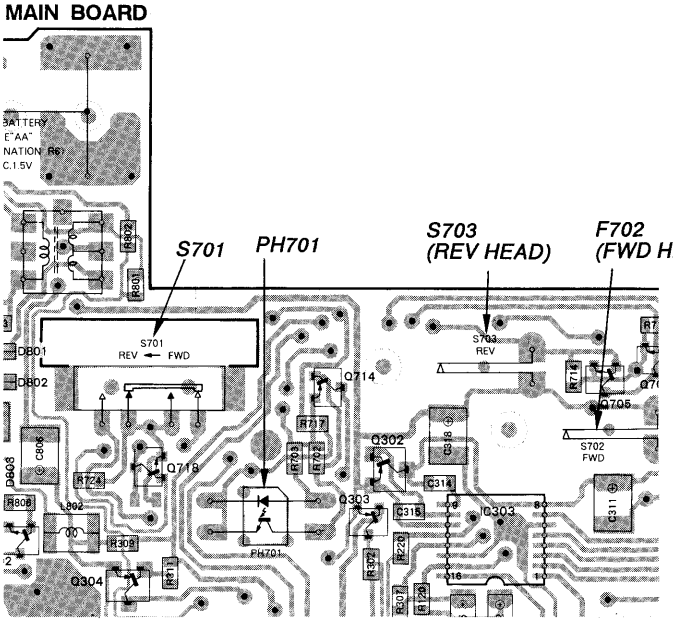
1. Turn S701 to the FWD side and supply power of 1.5 V.
2. Turn on S703 (momentarily). (The P lever (R) will go up and down until it is turned on.)
3. Turn on S702 (momentarily). (The P lever (N) will go up and down until it is turned on.)

This finishes initial reset. The set is now in the standby state for key input.

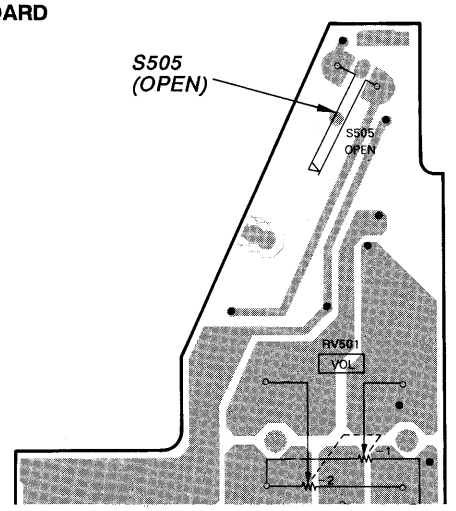
To operate:

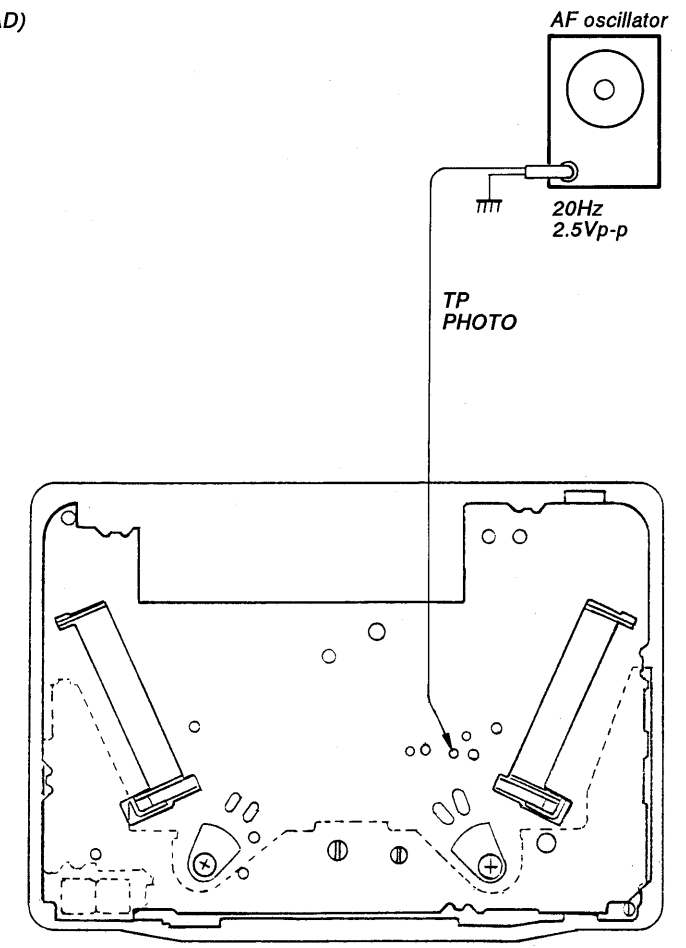
1. Perform initial reset.
2. Input a square wave from the AF oscillator.
3. Operational mode:
   - 3-1. FWD mode while S702 is on.
   - 3-2. REV mode while S703 is on (S701 is the REV side).
   - 3-3. FF mode when the ▶▶ key is pressed.
   - 3-4. REW mode when the ◀◀ key is pressed.
4. Return to standby state.
   - 4-1. To return from the FWD mode, turn off S702 and turn S702 on again for about 1 second.
   - 4-2. To return from REV mode, turn off S703 and turn S703 on again for about 1 second.
   - 4-3. To return from the FF or REW mode, press the ■ key.

MAIN BOARD



SUB BOARD

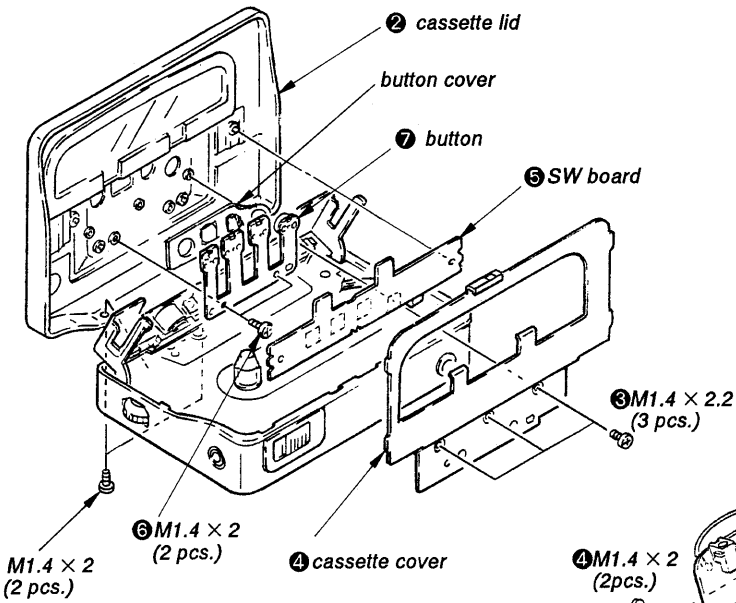




SECTION 3
DISASSEMBLY

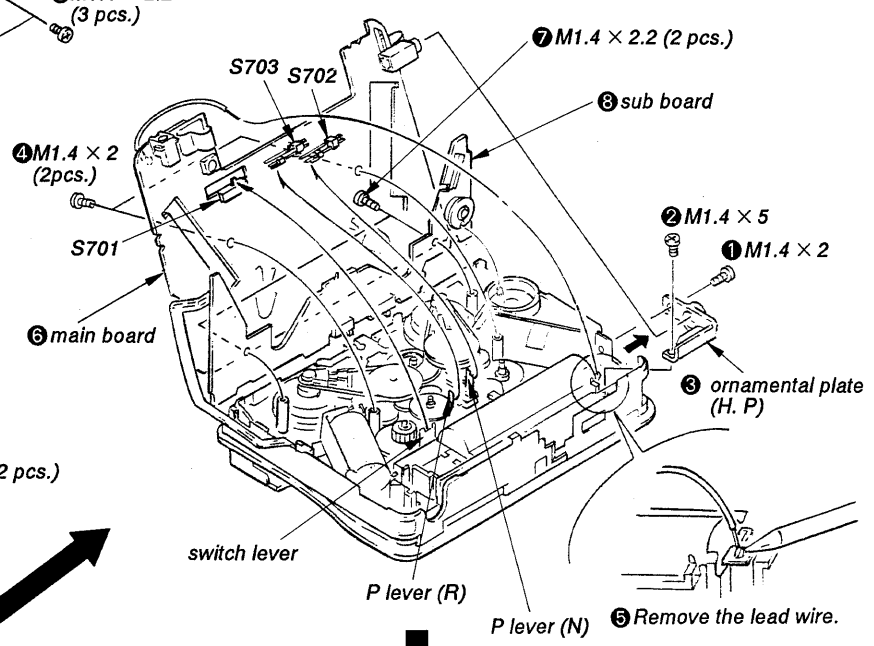
Note: Follow the disassembly procedure in the numerical order given.

CASSETTE LID / SW BOARD

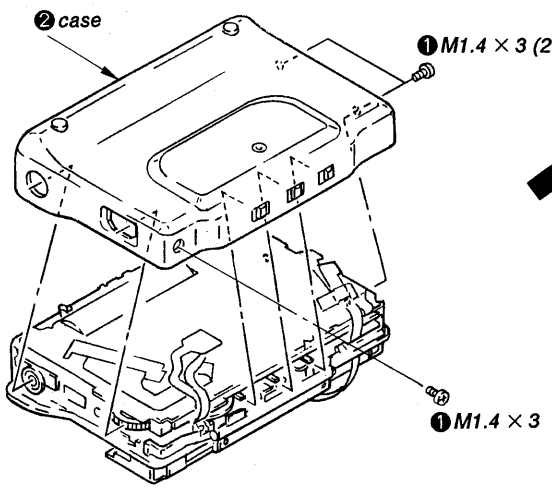


When attaching the main board, put the battery case in an open position and attach with the P levers (N), (R) in a down state and make sure that the P lever (N) is linked with S702 and the P lever (R) is linked with S703.

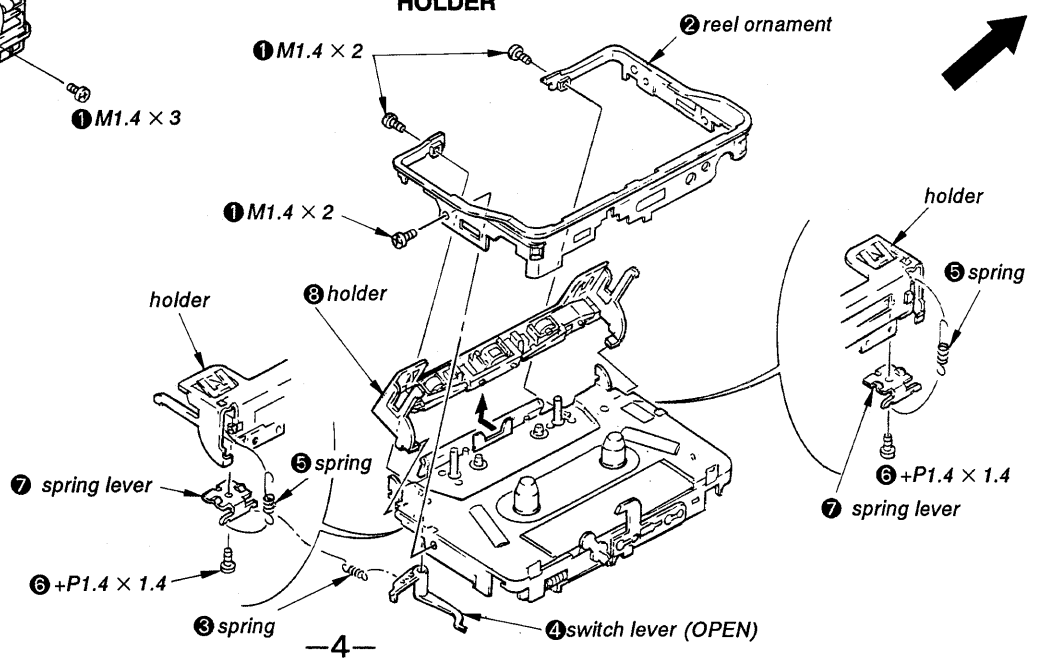
MAIN / SUB BOARD



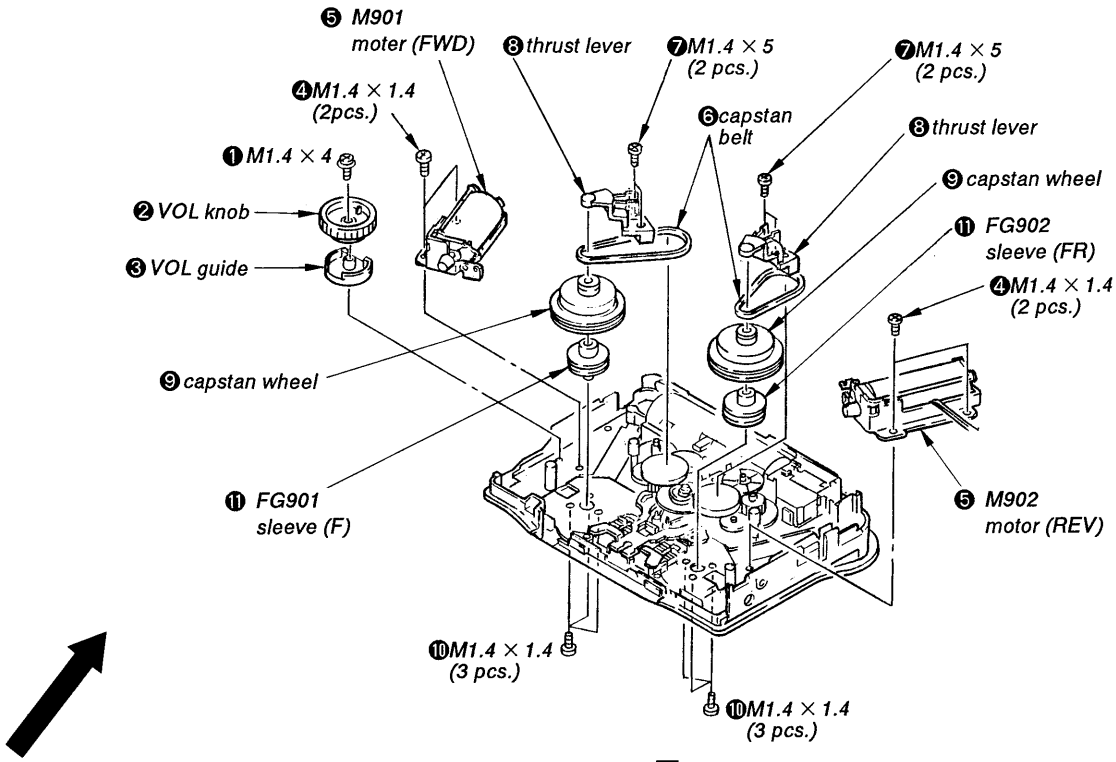
CASE



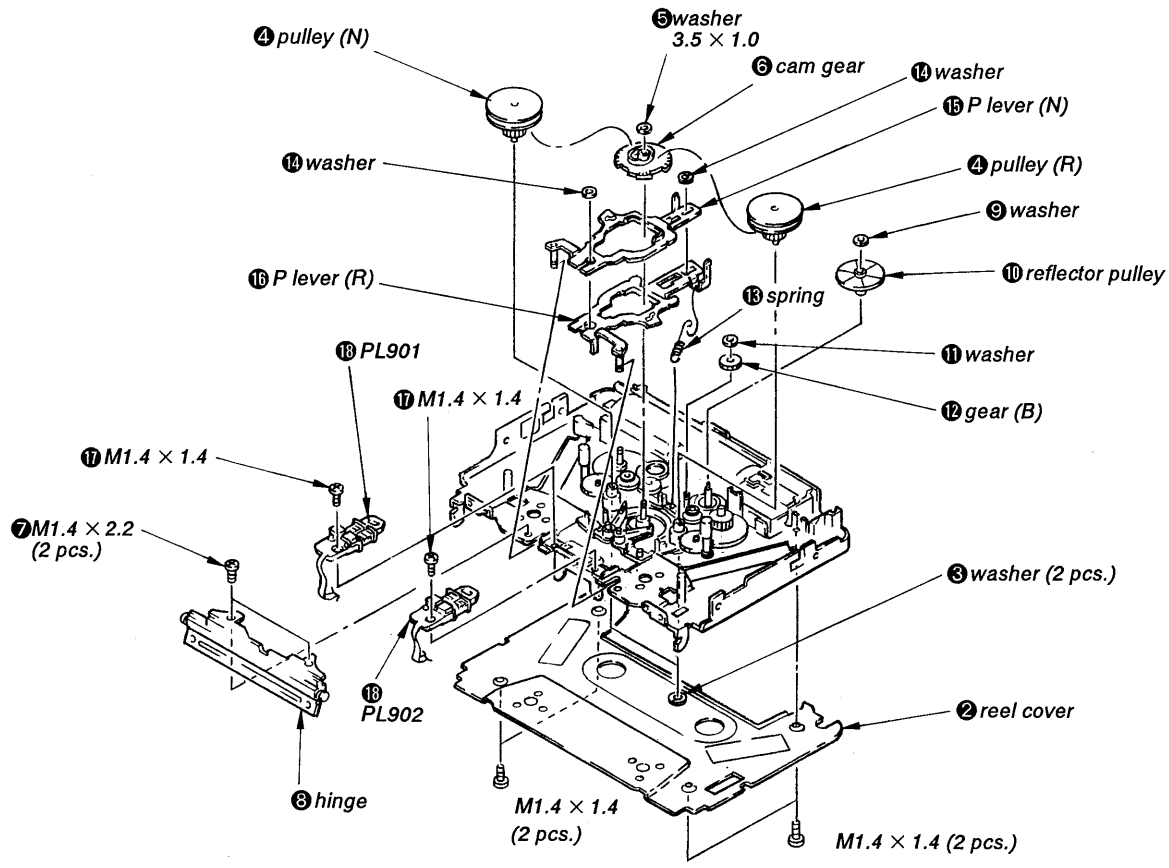
HOLDER



MOTOR (M901, M902), SLEEVE (FG901, FG902)



PLUNGER (PL901, PL902)



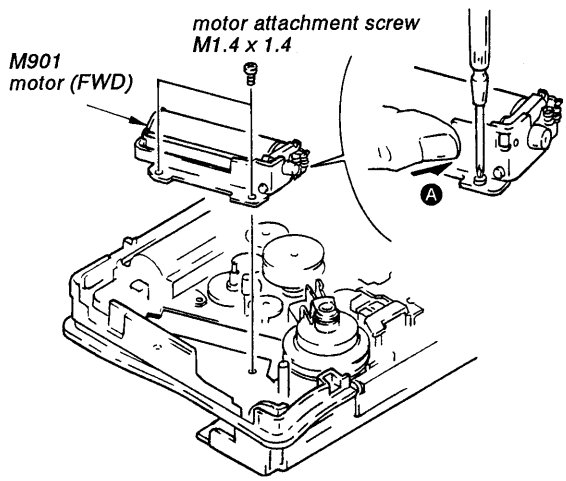
Note on Replacing Motor

After replacing the motor (M901, M902), the capstan wheel and the sleeve (FG901, FG902), be sure to adjust the motor position and adjust for wow and flutter.

Installing the motor.

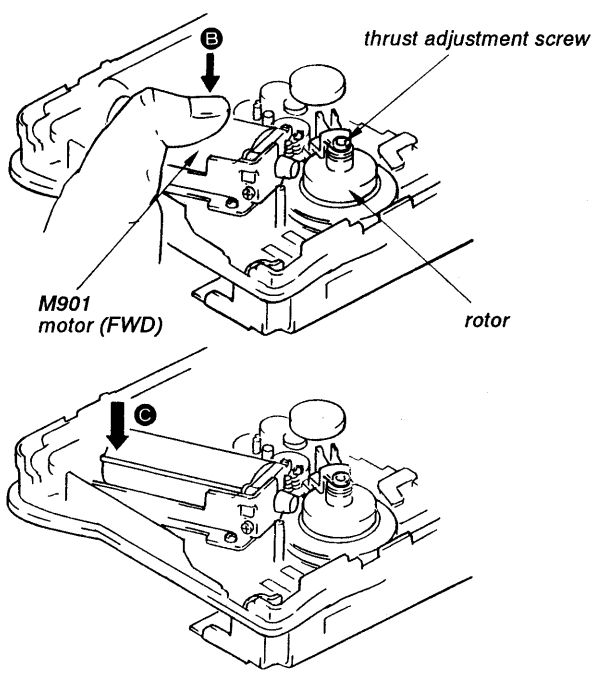
1. Temporarily tighten the motor attachment screw.
2. Tighten the screw while pressing down in the direction shown by the arrow Ⓐ.

Note: Attach M902 (REV) in the same way.



Motor Position Adjustment

1. Loosen the thrust adjustment screws.
2. Tighten the screw while pushing the motor lightly in the direction shown by arrow Ⓑ. Make sure at this time that the thrust play is within 0.1 mm. To check the play, press and release the motor in the direction of arrow Ⓒ and make sure that the motor pulley and rotor rubber section do not contact with each other.
3. After the adjustments, apply suitable locking compound to the thrust adjustment screws.



Note: Adjust in the same way on the M902 (REV) side.

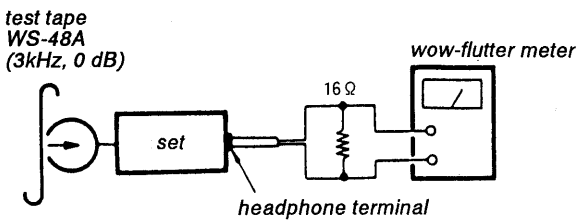
W w and Flutt r Adjustment

Setting:

- Power supply voltage : 1.3 V
- Tape : Use area near end of tape
- VOL knob : Mechanical center
- TAPE switch : NORM
- DOLBY NR switch : OFF
- MEGA BASS switch : NORM

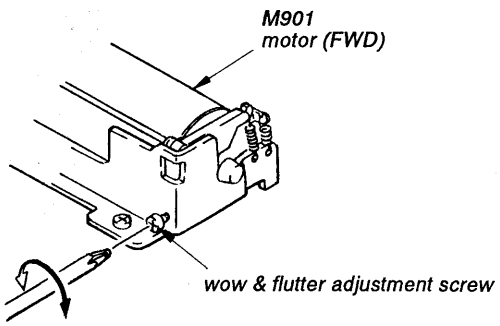
Procedure:

1. Mode : playback



Turn the adjustment screw until the reading on the wow-flutter meter is 0.12% W•RMS or less (minimum value).

2. Confirm that normal PLAY operation is possible at a power supply voltage of 1.0 V.
3. If the conditions in steps 1 and 2 are not satisfied, re-adjust starting with "installing the motor".



Note: Adjust in the same way on the M902 (REV) side.

SECTION 4
ADJUSTMENTS

4-1. MECHANICAL ADJUSTMENT

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:
   playback head, pinch roller, rubber belts, capstan, idler
2. Demagnetize the playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage (1.3V) unless otherwise noted.

Torqu M asurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	20 to 40 g• cm (0.28 to 0.55 oz• inch)
FWD Back Tension	CQ-102C	1 to 3.5 g• cm (0.014 to 0.048 oz•inch)
REV	CQ-102RB	20 to 40 g• cm (0.28 to 0.55 oz• inch)
REV Back Tension	CQ-102RB	1 to 3.5 g• cm (0.014 to 0.048 oz•inch)
FF, REW	CQ-201B	more than 50 g• cm (more than 0.70 oz•inch)

Tape Pulling Force Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 50 g (more than 1.77 oz)
REV	CQ-403R	more than 50 g (more than 1.77 oz)

4-2. ELECTRICAL ADJUSTMENTS

PRECAUTION

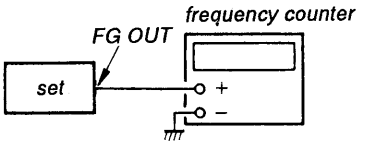
1. Power supply voltage: 1.3V
2. Switch position
   TAPE switch : NORM
   DOLBY NR switch : OFF
   MEGA BASS switch : NORM

• Test tape

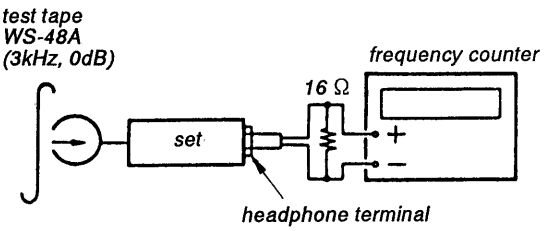
Type	Signal	User for
P-4-L300	315 Hz, 0 dB	DOLBY NR lever Adjustment
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment

Tape Speed Adjustment

Procedure:



1. Open the PLL terminal and set into FF mode. At this time adjust RV601 so that the frequency counter reading is 793 ± 3Hz. (Also check the REW mode).
2. Short the PLL terminal and confirm that the frequency counter reading is 769 ± 1Hz in the FF mode.



3. Play back WS-48A (tape center potion) and confirm that the frequency counter reading is 3,000 ± 9Hz for both FWD and REV.

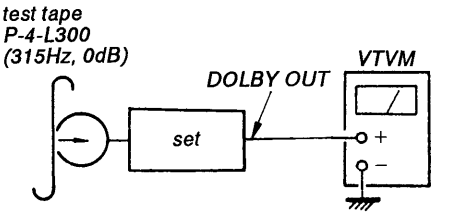
Adjustment Location: sub board

DOLBY NR level Adjustment

DOLBY NR switch	: OFF
VOL knob	: minimum
MEGA BASS switch	: NORM
TAPE B switch	: NORM

Procedure:

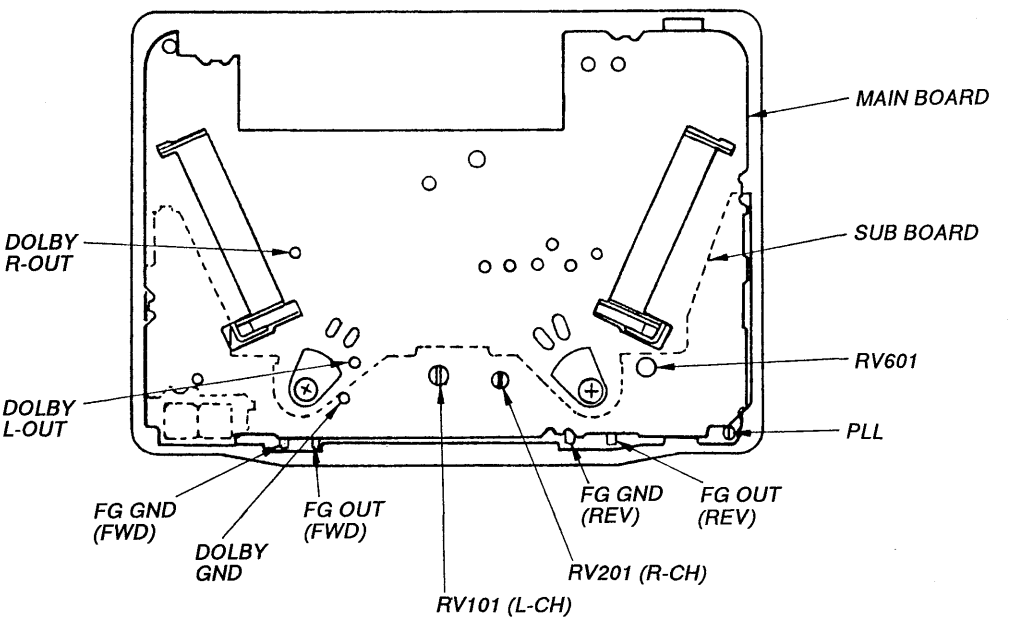
1. Mode : playback



2. Adjust RV101 (L-CH) and RV201 (R-CH) so that the VTVM reading is $-30.5^{+1.5}_{-0.5}$ dB.

Adjustment Locatin: main board

Adjustment Parts Location Diagram



SECTION 5
DIAGRAMS

5-1. PRINTED WIRING BOARDS

Note:

- ○——— : parts extracted from the component side.
- ———— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- : Through hole.
- : Pattern on the side which is seen.
- : Pattern of the rear side.

Semiconductor Location

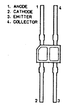
Ref. No.	Location	Ref. No.	Location
D301	G-8	Q603	H-15
D401	B-18	Q604	H-16
D402	B-21	Q605	H-15
D601	H-16	Q606	G-15
D701	F-2	Q608	E-14
D702	I-4	Q609	E-14
D703	E-2	Q610	F-15
D704	E-2	Q611	F-15
D801	D-4	Q612	F-15
D802	E-4	Q701	H-3
D803	E-4	Q702	F-9
		Q703	I-4
IC101	I-8	Q704	I-6
IC201	H-12	Q705	E-8
IC301	H-7	Q706	D-8
IC302	E-10	Q707	F-3
IC303	E-7	Q708	F-2
IC601	I-15	Q709	F-3
IC602	H-19	Q710	F-3
IC701	H-3	Q711	E-2
IC702	I-3	Q712	G-3
		Q713	G-3
PH701	F-6	Q714	E-6
		Q715	H-4
Q301	C-11	Q716	H-2
Q302	E-7	Q717	I-3
Q303	E-7	Q718	E-5
Q304	F-5	Q801	C-4
Q401	C-22	Q802	F-4
Q402	C-21	Q803	D-4
Q403	C-18	Q804	D-3
Q601	H-18	Q805	F-5
Q602	G-14		

Semiconductor Lead Layouts

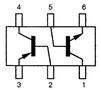
MM1046M

MA729

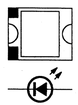
NJL5161K-B

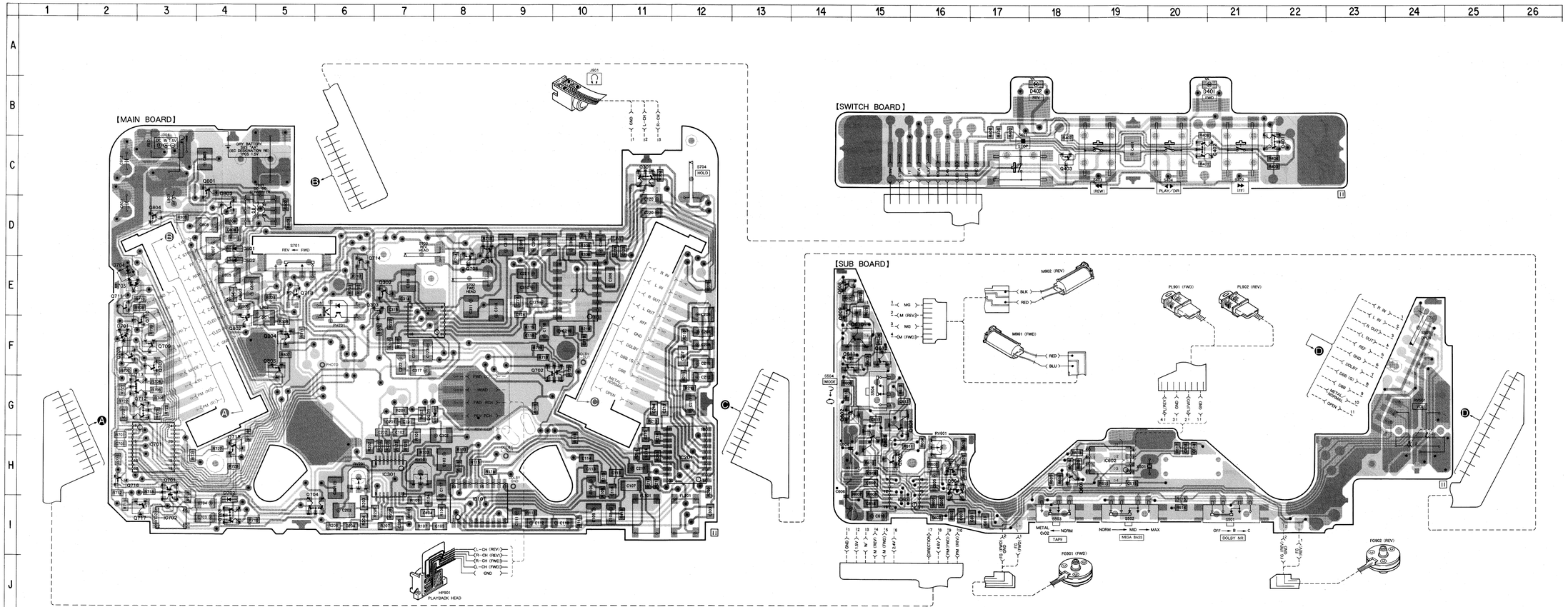


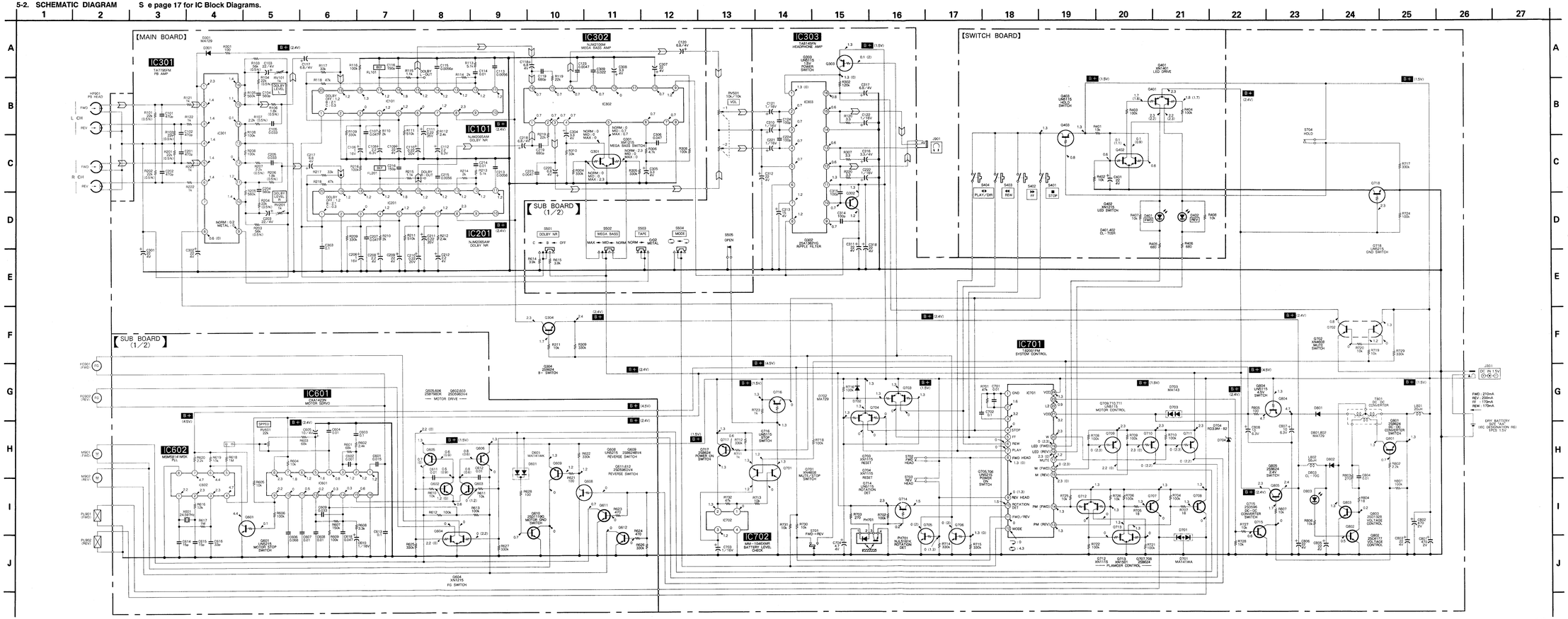
XN4608



CL-70G
CL-70SR







Note:

All capacitors are in μF unless otherwise noted. pF: μμF
50 WV or less are not indicated except for electrolytics and tantalums.

- All resistors are in Ω and ¼ W or less unless otherwise specified.
- % : indicates tolerance.
- B+ : B + Line.
- ▭ : adjustment for repair.

Total current is measured with no cassette installed.

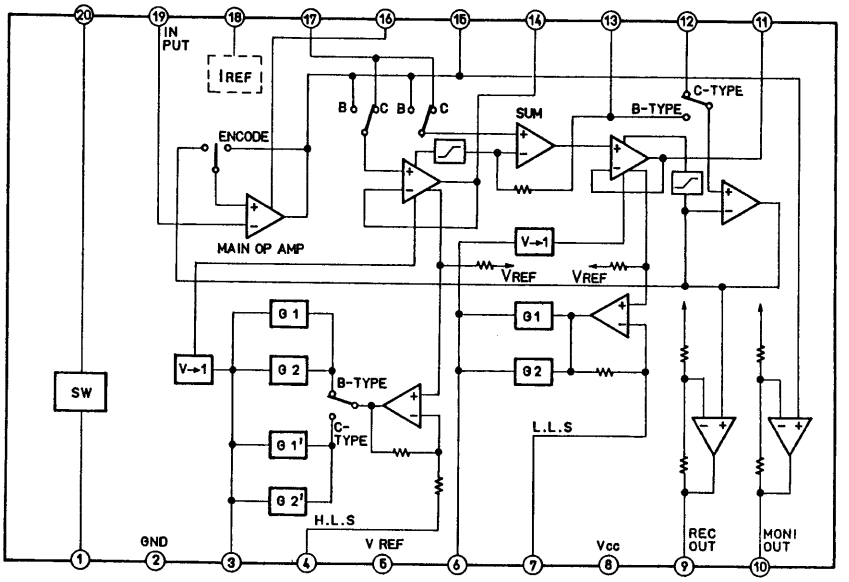
- Power voltage is dc 1.5 V and fed with regurated dc power supply from external power voltage jack.

Voltages and waveforms are dc with respect to ground in playback mode.
no mark : FWD
( ) : REV
Voltages are taken with a VOM (10 MΩ/V).
Voltage variations may be noted due to normal production tolerances.

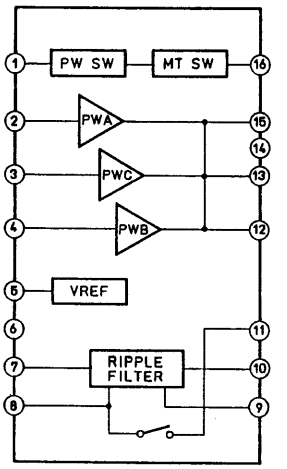
- Signal path.
  ▷ : PB

IC BLOCK DIAGRAMS

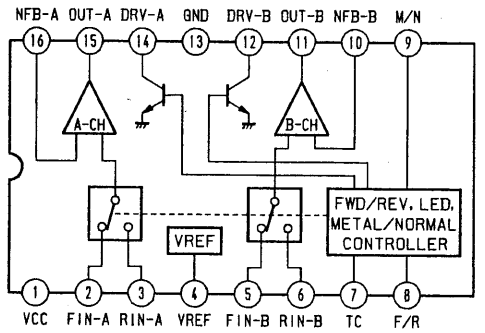
NJM2065AM (IC101, 201)



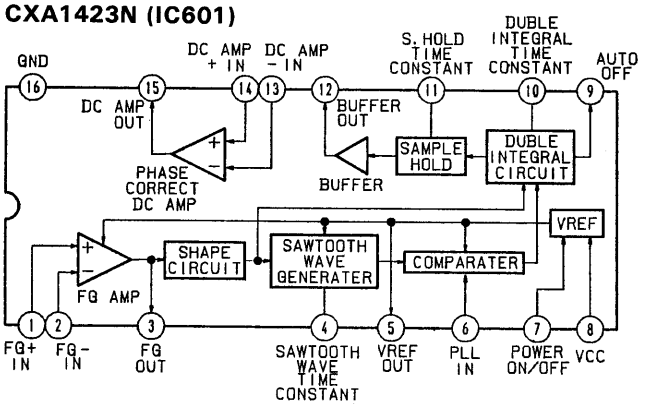
TA8145FN (IC303)



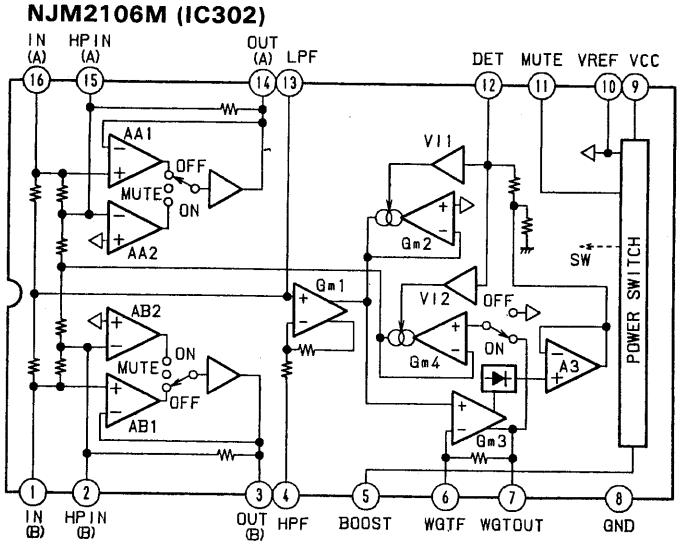
TA7795FN (IC301)



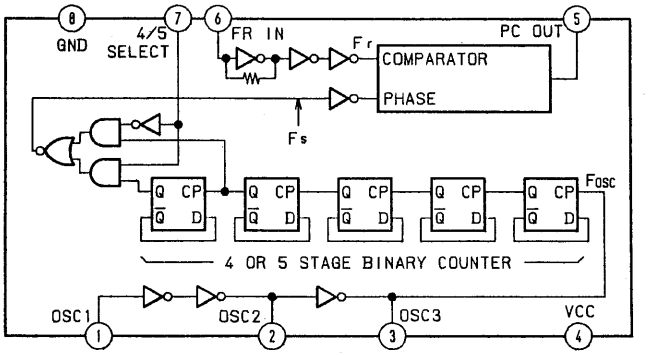
CXA1423N (IC601)



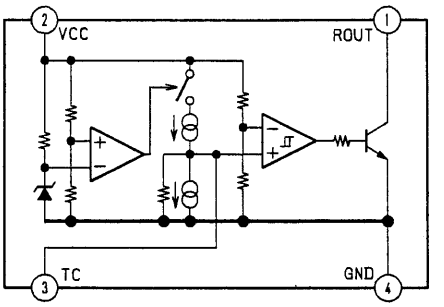
NJM2106M (IC302)



MSM58141MSK (IC602)



MM-1046XMR (IC702)



SECTION 6
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.

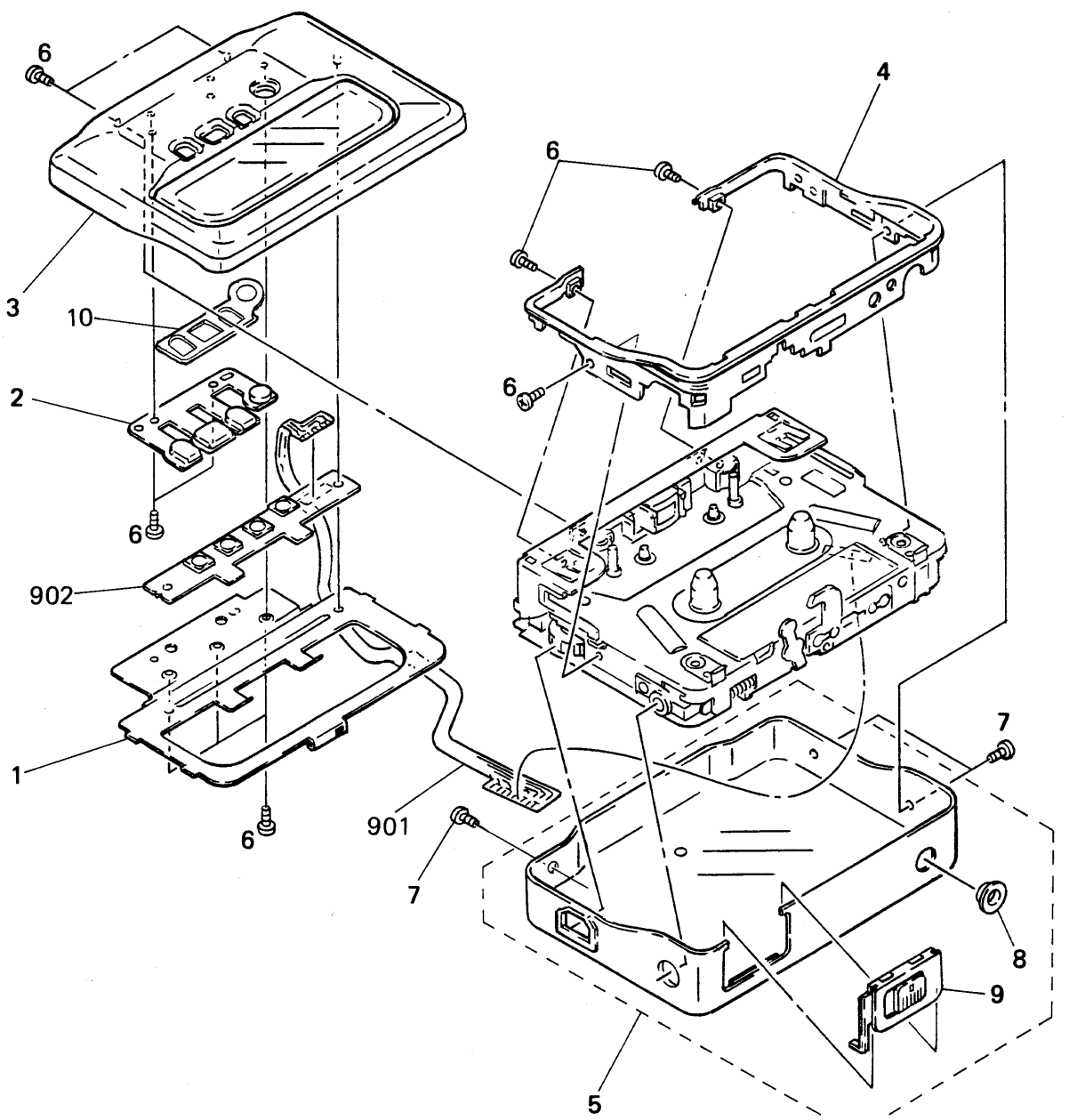
  The construction parts of an assembled part are indicated with a collation number in the remark column.

  Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

  Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

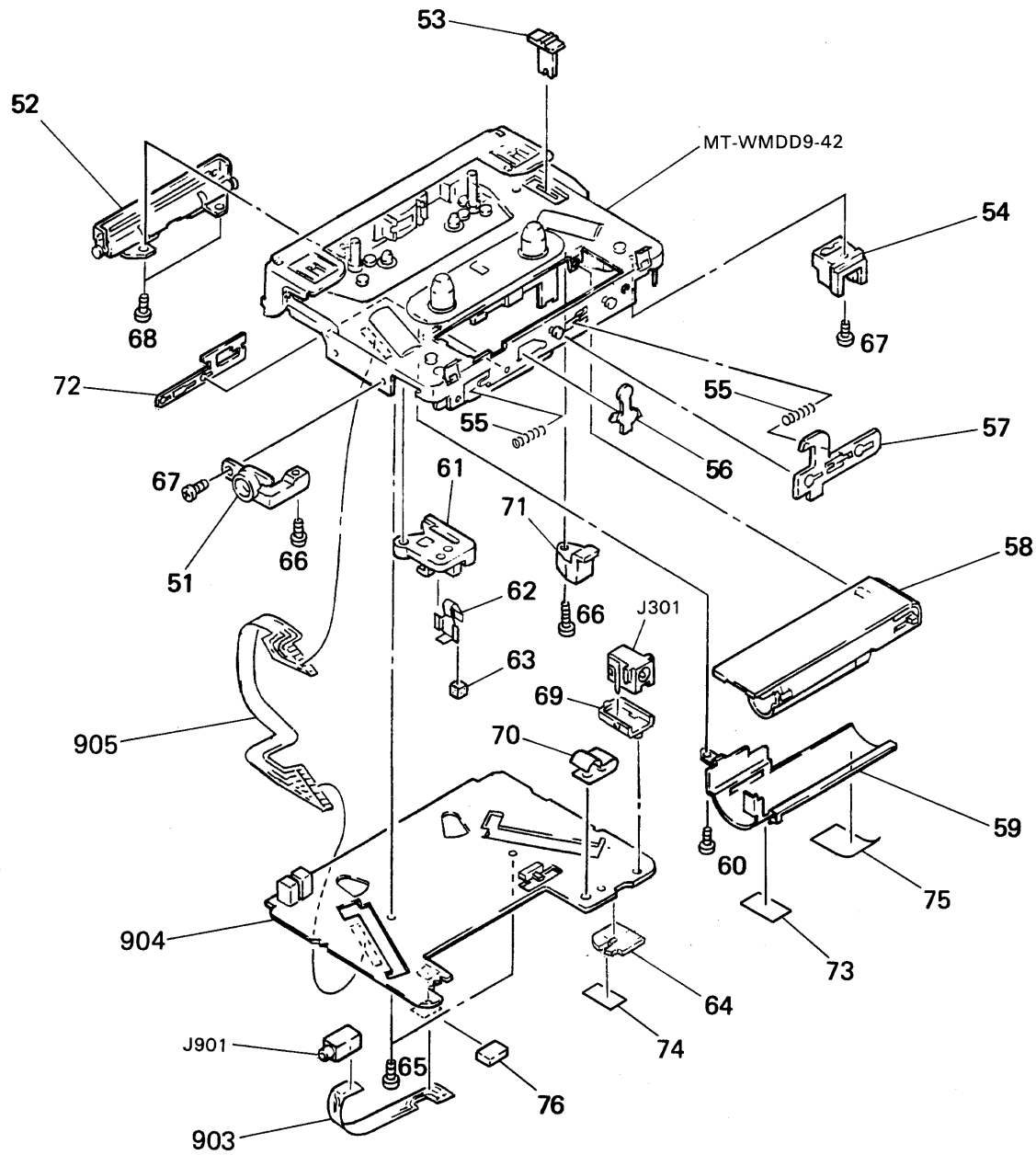
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

(1) CABINET



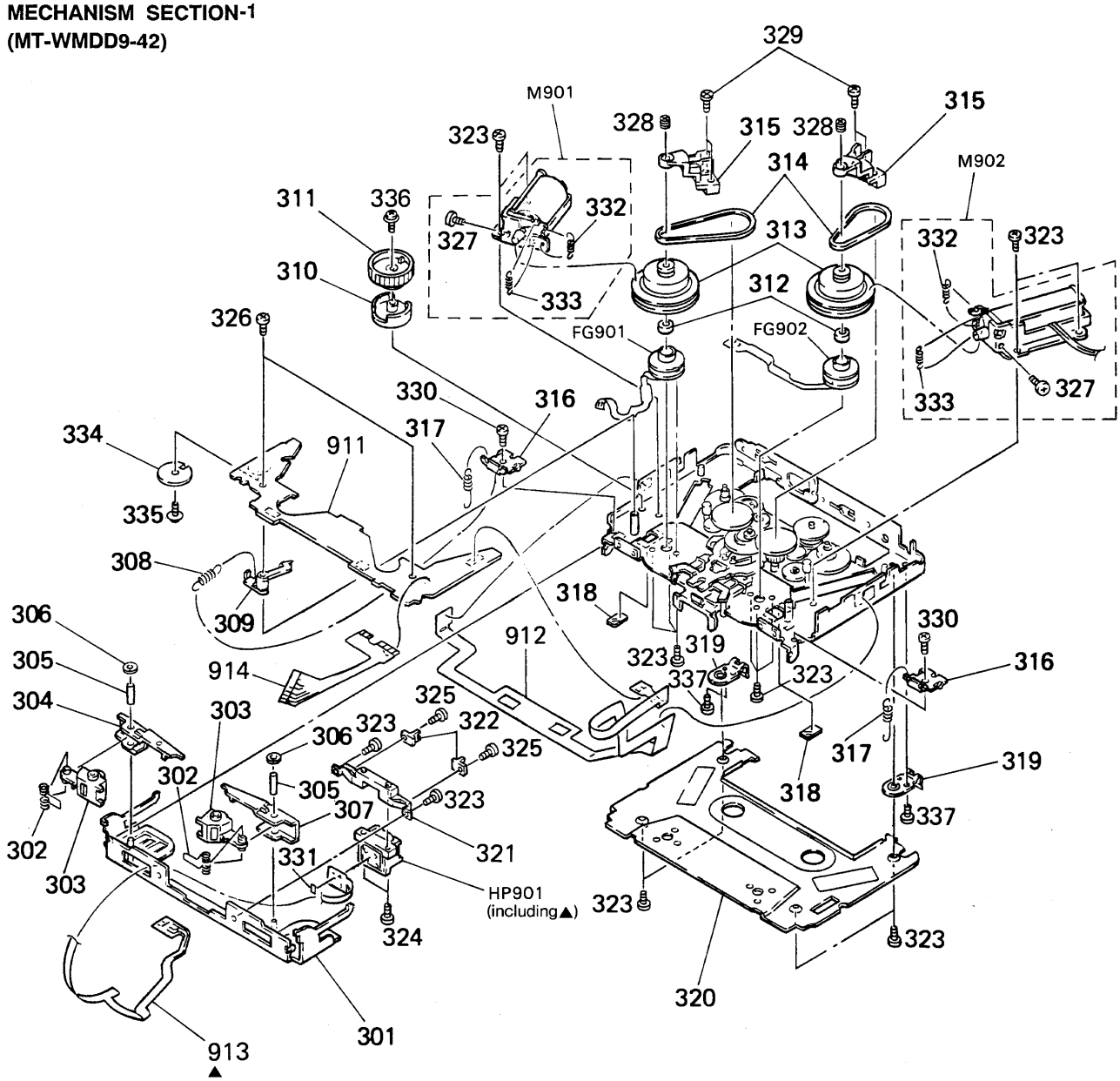
Ref.No	Part No.	Description	Remarks
1	3-357-207-01	COVER (CASSETTE)	
2	X-3324-416-1	BUTTON ASSY	
3	X-3324-418-1	LID ASSY, CASSETTE	
4	3-357-212-01	ORNAMENT, REEL	
5	X-3324-427-1	CASE ASSY	
6	3-704-197-12	SCREW (M1.4X2.0), LOCKING	
7	3-704-197-32	SCREW (M1.4X3.0)	
8	3-357-174-01	PLATE (JACK), ORNAMENTAL	
9	X-3324-421-1	PLATE (OPEN) ASSY, ORNAMENTAL	
10	3-357-216-01	COVER (BUTTON)	
901	1-633-189-11	PC BOARD, SWITCH FLEXIBLE	
902	A-3015-836-A	PC BOARD ASSY, SW	

(2) CHASSIS



Ref.No	Part No.	Description	Remarks
51	3-357-211-01	PLATE (H.P), ORNAMENTAL	
52	X-3324-415-1	HINGE ASSY	
53	3-357-177-01	KNOB (MODE)	
54	3-357-200-01	COVER (DC JACK)	
55	3-357-195-01	SPRING COMPRESSION	
56	X-3324-414-1	LEVER ASSY, MIDWAY	
57	X-3324-420-1	LEVER (B) ASSY, LOCK	
58	X-3324-417-1	CASE ASSY, BATTERY	
59	*3-357-208-01	COVER	
60	3-703-816-06	SCREW (M1.4X1.4), SPECIAL HEAD	
61	3-357-201-01	HOLDER (TERMINAL BOARD)	
62	3-357-188-01	TERMINAL BOARD (C), BATTERY	
63	*3-357-226-01	CUSHION (BATTERY)	
64	3-357-215-01	SPACER (PC BOARD)	
65	3-335-797-01	SCREW (M1.4X2), TOOTHED LOCK	
66	3-704-197-82	SCREW (M1.4X5.0), LOCKING	
67	3-704-197-12	SCREW (M1.4X2.0), LOCKING	
68	3-704-245-22	SCREW (P1.4X2.2)	
69	3-357-178-01	GUIDE (DC JACK)	
70	3-357-187-01	TERMINAL BOARD (B), BATTERY	
71	3-357-224-01	COVER (FULCRUM)	
72	3-357-229-01	LEVER (C), LOCK	
73	9-911-845-XX	CUSHION (A)	
74	9-911-838-XX	CUSHION	
75	3-831-441-11	CUSHION (B)	
76	3-553-567-00	CUSHION	
903	1-633-393-11	PC BOARD, HEADPHONES FLEXIBLE	
904	A-3015-835-A	PC BOARD ASSY, MAIN	
905	1-633-392-11	PC BOARD, (B) FLEXIBLE	
J301	1-507-723-00	JACK, EXTENTION POWER (DC IN 1.5V)	
J901	1-569-251-11	JACK (HEADPHONES)	

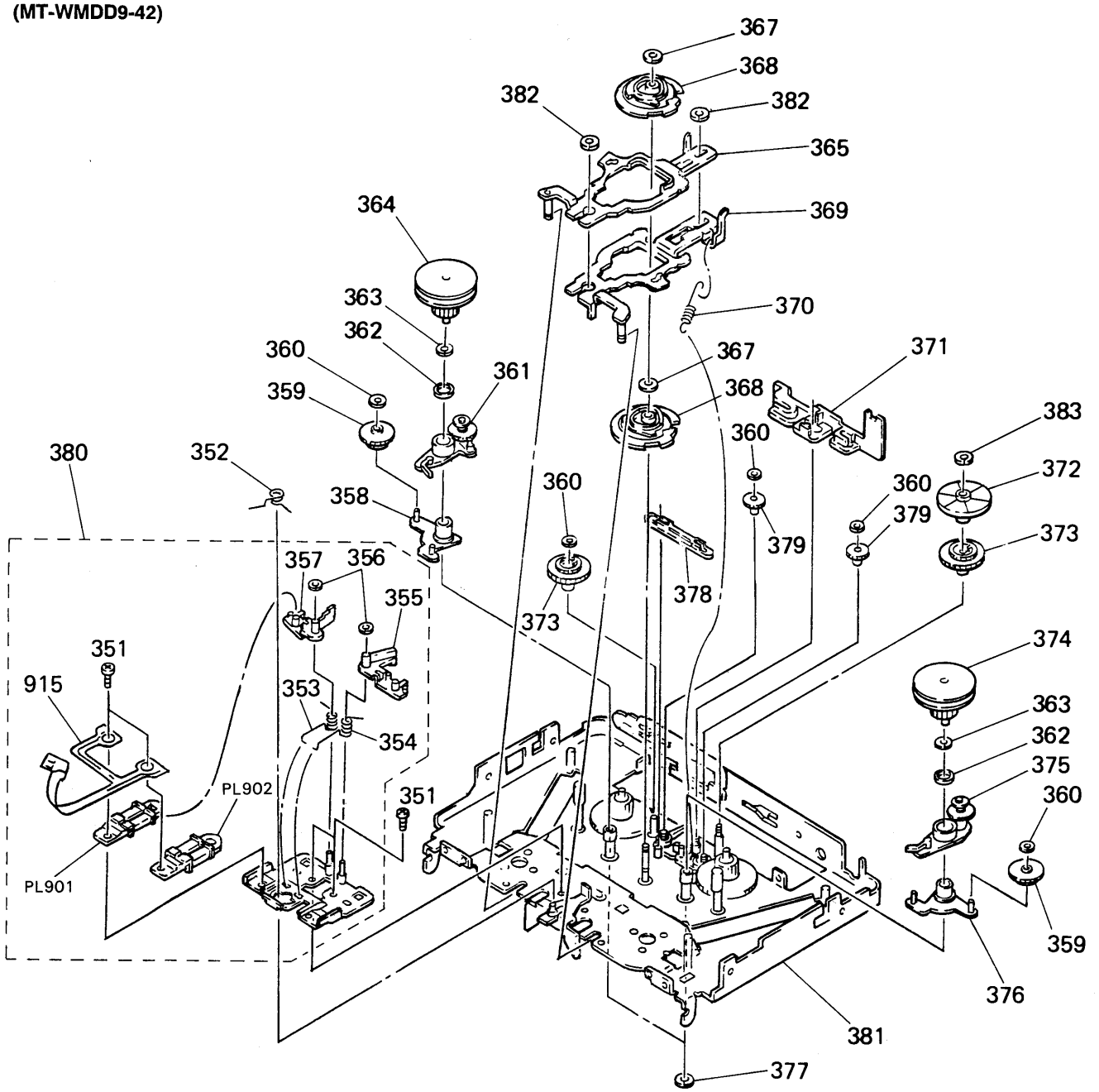
(3) MECHANISM SECTION-1
(MT-WMDD9-42)



Ref.No	Part No.	Description	Remarks
301	X-3324-408-1	HOLDER ASSY	
302	3-357-103-01	SPRING	
303	X-3324-403-1	PINCH LEVER ASSY	
304	3-357-149-01	LEVER (N), SPRING	
305	3-357-117-01	COLLAR	
306	3-349-859-11	WASHER	
307	3-357-142-01	LEVER (R), SPRING	
308	3-328-438-01	SPRING, TENSION	
309	3-357-238-01	LEVER (OPEN), SWITCH	
310	*3-357-150-01	GUIDE, VOL	
311	3-357-151-01	KNOB (VOL)	
312	4-908-282-01	BEARING (FLANGE NO), BALL	
313	X-3310-999-1	WHEEL ASSY, CAPSTAN	
314	3-357-133-01	BELT	
315	*3-357-146-01	LEVER, THRUST	
316	3-343-587-01	LEVER, SPRING	
317	3-357-136-01	SPRING (HOLDER), TENSION	
318	*3-357-220-01	SHEET	
319	*3-343-588-01	SPRING	
320	3-357-163-01	COVER, REEL	
321	X-3324-412-1	LEVER ASSY, HEAD	
322	3-357-104-01	GUIDE, TAPE	
323	3-331-047-01	SCREW (M1.4X1.4),SPECIAL HEAD	

Ref.No	Part No.	Description	Remarks
324	3-704-245-71	SCREW (P1.4X4.5)	
325	3-703-816-31	SCREW (M1.4X1.6), SPECIAL HEAD	
326	3-703-816-61	SCREW (M1.4X2.2), SPECIAL HEAD	
327	3-703-816-51	SCREW (M1.4X3.5), SPECIAL HEAD	
328	3-357-127-01	SCREW (THRUST)	
329	3-703-816-21	SCREW (M1.4X5.0), SPECIAL HEAD	
330	7-627-850-37	SCREW,PRECISION +P 1.4X1.4	
331	*3-338-667-01	SHEET, ADHESIVE, DOUBLE-FACE	
332	3-357-134-01	SPRING, TENSION	
333	3-357-135-01	SPRING, TENSION	
334	3-357-167-01	HOLDER (VOL)	
335	3-703-816-72	SCREW (M1.4X3.0), SPECIAL HEAD	
336	3-357-241-01	SCREW, WASHER HEAD	
337	3-343-573-01	SCREW, SPECIAL PRECISION	
911	A-3015-833-A	PC BOARD ASSY, SUB	
912	1-633-394-11	PC BOARD, MOTOR FLEXIBLE	
913	1-634-250-11	PC BOARD,HEAD FLEXIBLE	
914	1-633-391-11	PC BOARD, (A) FLEXIBLE	
FG901	X-3324-406-1	SLEEVE (F) ASSY	
FG902	X-3324-424-1	SLEEVE (FR) ASSY	
HP901	1-543-689-11	HEAD, MAGNETIC (PLAYBACK)	
M901	A-3133-395-A	MOTOR (FWD) BLOCK ASSY	327, 332, 333
M902	A-3133-396-A	MOTOR (REV) BLOCK ASSY	327, 332, 333

(4) MECHANISM SECTION-2 (MT-WMDD9-42)



Ref.No	Part No.	Description	Remarks
351	3-331-047-01	SCREW (M1.4X1.4),SPECIAL HEAD	
352	3-357-114-01	SPRING	
353	3-357-118-01	SPRING (N)	
354	3-357-119-01	SPRING (R)	
355	3-357-145-01	LEVER (R), TRIGGER	
356	3-338-645-31	WASHER 0.8X2.5	
357	3-357-144-01	LEVER (N), TRIGGER	
358	X-3324-405-1	LEVER (ND) ASSY, P	
359	3-343-592-01	GEAR (NR)	
360	3-349-859-11	WASHER	
361	X-3310-994-1	LEVER ASSY, FF	
362	3-349-850-01	WASHER	
363	3-321-394-41	WASHER, COTTER POLYETHYLEVE 2.5X1.2	
364	X-3310-996-1	PULLEY (N) ASSY	
365	X-3324-401-1	LEVER (N) ASSY, P	
367	3-341-752-11	WASHER, POLYETHYLENE	
368	3-357-152-01	GEAR (CAM)	

Ref.No	Part No.	Description	Remarks
369	X-3324-402-1	LEVER (R) ASSY, P	
370	3-343-570-01	SPRING (SW LEVER), TENSION	
371	3-357-156-01	LEVER, SWITCH	
372	X-3310-997-1	PULLEY (REFLECTOR) ASSY	
373	3-343-584-01	GEAR (C)	
374	X-3310-995-1	PULLEY (R) ASSY	
375	X-3310-993-1	LEVER ASSY, REW	
376	X-3324-404-1	LEVER (RD) ASSY, P	
377	3-331-007-21	WASHER 2.3X1.0	
378	3-357-160-01	STOPPER (A)	
379	3-357-111-01	GEAR (B)	
380	1-454-511-11	SOLENOID, PLUNGER (ASSY)	351, 353-357
381	X-3324-428-1	CHASSIS ASSY	
382	3-331-036-11	WASHER	
915	1-633-659-11	PC BOARD, PLUNGER FLEXBLE	
PL901	1-454-490-11	SOLENOID, PLUNGER (FWD)	
PL902	1-454-490-11	SOLENOID, PLUNGER (REV)	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

  Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

Ref.No	Part No.	Description			
901	1-633-189-11	PC BOARD, SWITCH FLEXIBLE			
902	A-3015-836-A	PC BOARD ASSY, SW			
903	1-633-393-11	PC BOARD, HEADPHONES FLEXIBLE			
904	A-3015-835-A	PC BOARD ASSY, MAIN			
905	1-633-392-11	PC BOARD, (B) FLEXIBLE			
911	A-3015-833-A	PC BOARD ASSY, SUB			
912	1-633-394-11	PC BOARD, MOTOR FLEXIBLE			
913	1-634-250-11	PC BOARD,HEAD FLEXIBLE			
914	1-633-391-11	PC BOARD, (A) FLEXIBLE			
915	1-633-659-11	PC BOARD, PLUNGER FLEXBLE			
C101	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C102	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C103	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C104	1-164-479-11	CERAMIC CHIP	0.0056MF	10%	50V
C105	1-164-482-11	CERAMIC CHIP	0.033MF	10%	16V
C106	1-135-091-00	TANTAL CHIP	1MF	10%	16V
C107	1-164-483-11	CERAMIC CHIP	0.047MF	10%	16V
C108	1-135-149-21	TANTAL CHIP	2.2MF	10%	6.3V
C109	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C110	1-135-191-21	TANTAL CHIP	0.22MF	10%	20V
C111	1-135-072-21	TANTAL CHIP	0.22MF	10%	35V
C112	1-135-187-21	TANTAL CHIP	2.2MF	10%	4V
C113	1-164-479-11	CERAMIC CHIP	0.0056MF	5%	50V
C114	1-164-480-11	CERAMIC CHIP	0.01MF	5%	50V
C115	1-164-479-11	CERAMIC CHIP	0.0056MF	5%	50V
C116	1-163-121-00	CERAMIC CHIP	150PF	10%	50V
C117	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V
C118	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V
C119	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C120	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V
C121	1-135-091-00	TANTAL CHIP	1MF	20%	16V
C122	1-135-091-00	TANTAL CHIP	1MF	20%	16V
C123	1-162-968-11	CERAMIC CHIP	0.0047MF	10%	50V
C124	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C201	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C202	1-163-133-00	CERAMIC CHIP	470PF	10%	50V
C203	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C204	1-164-479-11	CERAMIC CHIP	0.0056MF	10%	50V
C205	1-164-482-11	CERAMIC CHIP	0.033MF	10%	16V
C206	1-135-208-11	TANTAL CHIP	1MF	10%	10V
C207	1-164-483-11	CERAMIC CHIP	0.047MF	10%	16V
C208	1-135-187-21	TANTAL CHIP	2.2MF	10%	4V
C209	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C210	1-135-191-21	TANTAL CHIP	0.22MF	10%	20V
C211	1-135-072-21	TANTAL CHIP	0.22MF	10%	35V
C212	1-135-187-21	TANTAL CHIP	2.2MF	10%	4V
C213	1-164-479-11	CERAMIC CHIP	0.0056MF	5%	50V
C214	1-164-480-11	CERAMIC CHIP	0.01MF	5%	50V
C215	1-164-479-11	CERAMIC CHIP	0.0056MF	5%	50V
C216	1-163-121-00	CERAMIC CHIP	150PF	10%	50V
C217	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V
C218	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V
C219	1-162-963-11	CERAMIC CHIP	680PF	10%	50V

Ref.No	Part No.	Description			
C220	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V
C221	1-135-091-00	TANTAL CHIP	1MF	20%	16V
C222	1-135-091-00	TANTAL CHIP	1MF	20%	16V
C223	1-162-968-11	CERAMIC CHIP	0.0047MF	10%	50V
C224	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C301	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C302	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C303	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C304	1-135-180-21	TANTAL CHIP	3.3MF	10%	4V
C305	1-135-180-21	TANTAL CHIP	3.3MF	10%	4V
C306	1-164-483-11	CERAMIC CHIP	0.047MF	10%	16V
C307	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C308	1-135-180-21	TANTAL CHIP	3.3MF	10%	4V
C309	1-164-481-11	CERAMIC CHIP	0.022MF	10%	16V
C310	1-135-091-00	TANTAL CHIP	1MF	20%	16V
C311	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C312	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C313	1-135-158-21	TANTAL CHIP	15MF	20%	4V
C314	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C315	1-162-953-11	CERAMIC CHIP	100PF	5%	50V
C316	1-135-180-21	TANTAL CHIP	3.3MF	10%	4V
C317	1-135-170-21	TANTAL CHIP	6.8MF	10%	4V
C318	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C401	1-135-157-21	TANTAL CHIP	22MF	20%	4V
C601	1-163-023-00	CERAMIC CHIP	0.015MF	10%	50V
C602	1-162-964-11	CERAMIC CHIP	0.001MF	10%	50V
C603	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C604	1-136-153-00	FILM	0.01MF	5%	50V
C605	1-135-201-11	TANTAL CHIP	10MF	20%	6.3V
C606	1-136-175-00	FILM	0.068MF	5%	50V
C607	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C608	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C609	1-163-989-11	CERAMIC CHIP	0.033MF	10%	25V
C610	1-135-091-00	TANTAL CHIP	1MF	10%	16V
C611	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C612	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C613	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C614	1-162-943-11	CERAMIC CHIP	15PF	5%	50V
C615	1-162-943-11	CERAMIC CHIP	15PF	5%	50V
C616	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C618	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C701	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C702	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C703	1-135-091-00	TANTAL CHIP	1MF	20%	16V
C704	1-135-151-21	TANTAL CHIP	4.7MF	20%	4V
C801	1-126-991-11	ELECT	470MF	20%	2V
C802	1-126-991-11	ELECT	470MF	20%	2V
C803	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C804	1-162-970-11	CERAMIC CHIP	0.01MF	10%	25V
C805	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C806	1-135-202-21	TANTAL CHIP	22MF	20%	4V
C807	1-135-157-21	TANTAL CHIP	10MF	20%	6.3V
C808	1-135-157-21	TANTAL CHIP	10MF	20%	6.3V
D301	8-719-420-51	DIODE MA729			

Ref.No	Part No.	Description
D401	8-719-981-67	DIODE CL-70SR-CD
D402	8-719-981-67	DIODE CL-70SR-CD
D601	8-719-404-35	DIODE MA141WK
D701	8-719-404-32	DIODE MA141WA
D702	8-719-420-51	DIODE MA729
D703	8-719-404-52	DIODE MA143
D704	8-719-105-58	DIODE RD3.9M-B2
D801	8-719-420-51	DIODE MA729
D802	8-719-420-51	DIODE MA729
D803	8-719-975-06	DIODE CL-70G-CD
FG901	X-3324-406-1	SLEEVE (F) ASSY
FG902	X-3324-424-1	SLEEVE (FR) ASSY
FL101	1-236-710-11	ENCAPUSLATED COMPONENT (FILTER, SP-SK)
FL201	1-236-710-11	ENCAPUSLATED COMPONENT (FILTER, SP-SK)
HP901	1-543-689-11	HEAD, MAGNETIC (PLAYBACK)
IC101	8-759-710-49	IC NJM2065AM
IC201	8-759-710-49	IC NJM2065AM
IC301	8-759-230-91	IC TA7795FN
IC302	8-759-711-24	IC NJM2106M
IC303	8-759-231-13	IC TA8145FN
IC601	8-752-039-14	IC CXA1423N
IC602	8-759-996-71	IC MSM58141MSK
IC701	8-759-239-09	IC TB2001FN
IC702	8-759-500-18	IC MM-1046XMR
J301	1-507-723-00	JACK, EXTENTION POWER (DC IN 1.5V)
J901	1-569-251-11	JACK (HEADPHONES)
JR1	1-216-864-11	METAL GLAZE 0 5% 1/16W
L801	1-421-665-11	COILP 20UH
L802	1-410-213-51	INDUCTOR CHIP 56UH
M901	A-3133-395-A	MOTOR (FWD) BLOCK ASSY
M902	A-3133-396-A	MOTOR (REV) BLOCK ASSY
PH701	8-759-710-35	DIODE, PHOTO NJL5161K-B
PL901	1-454-490-11	SOLENOID, PLUNGER (FWD)
PL902	1-454-490-11	SOLENOID, PLUNGER (REV)
Q301	8-729-403-17	TRANSISTOR XN1215
Q302	8-729-230-74	TRANSISTOR 2SA1362(YG)EL
Q303	8-729-420-53	TRANSISTOR UN5115
Q304	8-729-162-44	TRANSISTOR 2SB624-BV4
Q401	8-729-403-42	TRANSISTOR XN1401
Q402	8-729-403-17	TRANSISTOR XN1215
Q403	8-729-420-53	TRANSISTOR UN5115
Q601	8-729-420-50	TRANSISTOR UN5215
Q602	8-729-159-64	TRANSISTOR 2SD596
Q603	8-729-159-64	TRANSISTOR 2SD596
Q604	8-729-403-17	TRANSISTOR XN1215
Q605	8-729-104-26	TRANSISTOR 2SB804-AW
Q606	8-729-104-26	TRANSISTOR 2SB804-AW
Q608	8-729-420-50	TRANSISTOR UN5215
Q609	8-729-162-44	TRANSISTOR 2SB624-BV4
Q610	8-729-421-15	TRANSISTOR 2SD1119-Q
Q611	8-729-159-64	TRANSISTOR 2SD596
Q612	8-729-159-64	TRANSISTOR 2SD596
Q701	8-729-402-16	TRANSISTOR XN4608
Q702	8-729-402-16	TRANSISTOR XN4608
Q703	8-729-403-45	TRANSISTOR XN1115
Q704	8-729-403-45	TRANSISTOR XN1115
Q705	8-729-420-50	TRANSISTOR UN5215
Q706	8-729-420-50	TRANSISTOR UN5215
Q707	8-729-230-74	TRANSISTOR 2SA1362(YG)EL
Q708	8-729-230-74	TRANSISTOR 2SA1362(YG)EL

Ref.No	Part No.	Description
Q709	8-729-420-53	TRANSISTOR UN5115
Q710	8-729-420-53	TRANSISTOR UN5115
Q711	8-729-420-53	TRANSISTOR UN5115
Q712	8-729-403-45	TRANSISTOR XN1115
Q713	8-729-421-23	TRANSISTOR XN1216
Q714	8-729-420-53	TRANSISTOR UN5115
Q715	8-729-159-64	TRANSISTOR 2SD596
Q716	8-729-420-53	TRANSISTOR UN5115
Q717	8-729-162-44	TRANSISTOR 2SB624-BV4
Q718	8-729-420-50	TRANSISTOR UN5215
Q801	8-729-162-44	TRANSISTOR 2SB624-BV4
Q802	8-729-117-31	TRANSISTOR 2SC4177-L5
Q803	8-729-400-56	TRANSISTOR 2SD1328-T
Q804	8-729-420-53	TRANSISTOR UN5115
Q805	8-729-162-44	TRANSISTOR 2SB624-BV4
R101	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R102	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R103	1-216-693-11	METAL CHIP 56K 0.50% 1/10W
R104	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R105	1-216-115-00	METAL GLAZE 560K 5% 1/10W
R106	1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W
R107	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W
R108	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R109	1-216-851-11	METAL GLAZE 330K 5% 1/16W
R110	1-218-271-11	METAL GLAZE 2K 5% 1/16W
R111	1-218-273-11	METAL GLAZE 510K 5% 1/16W
R112	1-216-993-11	METAL GLAZE 2.4K 5% 1/16W
R113	1-218-272-11	METAL GLAZE 5.1K 5% 1/16W
R114	1-218-271-11	METAL GLAZE 2K 5% 1/16W
R115	1-218-270-11	METAL GLAZE 1.1K 5% 1/16W
R116	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R117	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R118	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R119	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R120	1-216-791-11	METAL GLAZE 3.3 5% 1/16W
R121	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R122	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R201	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R202	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R203	1-216-693-11	METAL CHIP 56K 0.50% 1/10W
R204	1-216-683-11	METAL CHIP 22K 0.50% 1/10W
R205	1-216-115-00	METAL GLAZE 560K 5% 1/10W
R206	1-216-657-11	METAL CHIP 1.8K 0.50% 1/10W
R207	1-216-659-11	METAL CHIP 2.2K 0.50% 1/10W
R208	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R209	1-216-851-11	METAL GLAZE 330K 5% 1/16W
R210	1-218-271-11	METAL GLAZE 2K 5% 1/16W
R211	1-218-273-11	METAL GLAZE 510K 5% 1/16W
R212	1-216-993-11	METAL GLAZE 2.4K 5% 1/16W
R213	1-218-272-11	METAL GLAZE 5.1K 5% 1/16W
R214	1-218-271-11	METAL GLAZE 2K 5% 1/16W
R215	1-218-270-11	METAL GLAZE 1.1K 5% 1/16W
R216	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R217	1-216-839-11	METAL GLAZE 33K 5% 1/16W
R218	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R219	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R220	1-216-791-11	METAL GLAZE 3.3 5% 1/16W
R221	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R222	1-216-821-11	METAL GLAZE 1K 5% 1/16W
R301	1-216-809-11	METAL GLAZE 100 5% 1/16W
R302	1-216-846-11	METAL GLAZE 120K 5% 1/16W
R304	1-216-851-11	METAL GLAZE 330K 5% 1/16W
R305	1-216-851-11	METAL GLAZE 330K 5% 1/16W
R306	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W

Ref.No	Part No.	Description			
R307	1-216-791-11	METAL GLAZE	3.3	5%	1/16W
R308	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R309	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R310	1-216-839-11	METAL GLAZE	33K	5%	1/16W
R311	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R401	1-216-994-11	METAL GLAZE	13K	5%	1/16W
R402	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R403	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R404	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R405	1-216-819-11	METAL GLAZE	680	5%	1/16W
R406	1-216-819-11	METAL GLAZE	680	5%	1/16W
R407	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R408	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R601	1-216-843-11	METAL GLAZE	68K	5%	1/16W
R602	1-216-993-11	METAL GLAZE	2.4K	5%	1/16W
R603	1-216-843-11	METAL GLAZE	68K	5%	1/16W
R604	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R605	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R606	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R607	1-216-847-11	METAL GLAZE	150K	5%	1/16W
R608	1-216-827-11	METAL GLAZE	3.3K	5%	1/16W
R609	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R610	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R611	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R612	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R613	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R614	1-216-828-11	METAL GLAZE	3.9K	5%	1/16W
R615	1-216-828-11	METAL GLAZE	3.9K	5%	1/16W
R616	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R617	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R618	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R619	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R620	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R621	1-216-809-11	METAL GLAZE	100	5%	1/16W
R622	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R623	1-216-817-11	METAL GLAZE	470	5%	1/16W
R624	1-216-817-11	METAL GLAZE	470	5%	1/16W
R625	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R626	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R627	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R628	1-216-809-11	METAL GLAZE	100	5%	1/16W
R701	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R702	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R703	1-216-814-11	METAL GLAZE	270	5%	1/16W
R704	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R705	1-216-800-11	METAL GLAZE	18	5%	1/16W
R706	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R707	1-216-800-11	METAL GLAZE	18	5%	1/16W
R708	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R709	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R710	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R711	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R712	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R713	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R714	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R715	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R716	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R717	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R718	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R719	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R720	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R721	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R722	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R723	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R724	1-216-845-11	METAL GLAZE	100K	5%	1/16W

Ref.No	Part No.	Description			
R725	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R726	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R727	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R728	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R729	1-216-851-11	METAL GLAZE	330K	5%	1/16W
R730	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R731	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R732	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R801	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R802	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R803	1-216-814-11	METAL GLAZE	270	5%	1/16W
R804	1-216-800-11	METAL GLAZE	18	5%	1/16W
R805	1-216-809-11	METAL GLAZE	100	5%	1/16W
R806	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R807	1-216-833-11	METAL GLAZE	10K	5%	1/16W

RV101	1-238-201-11	RES, ADJ, METAL GLAZE 1K
RV201	1-238-201-11	RES, ADJ, METAL GLAZE 1K
RV501	1-238-879-11	RES, VAR, CARBON 10K/10K (VOL)
RV601	1-237-005-11	RES, ADJ, METAL GLAZE 22K
S401	1-571-533-31	SWITCH, KEY BOARD (STOP)
S402	1-571-533-31	SWITCH, KEY BOARD (FF)
S403	1-571-533-31	SWITCH, KEY BOARD (REW)
S404	1-571-533-31	SWITCH, KEY BOARD (PLAY/DIR)
S501	1-571-506-41	SWITCH, SLIDE (DOLBY NR)
S502	1-571-506-41	SWITCH, SLIDE (DBB)
S503	1-571-275-31	SWITCH, SLIDE (TAPE)
S504	1-571-275-11	SWITCH, SLIDE (MODE)
S505	1-570-395-11	SWITCH, LEAF (OPEN)
S701	1-571-584-31	SWITCH, SLIDE (DIRECTION)
S702	1-570-395-11	SWITCH, LEAF (FWD HEAD)
S703	1-570-395-11	SWITCH, LEAF (REV HEAD)
S704	1-570-395-11	SWITCH, LEAF (HOLD)
T801	1-449-885-11	TRANSFORMER, DC-DC CONVERTER
X601	1-577-709-11	VIBRATOR, CRYSTAL 24.957MHz

ACCESSORIES & PACKING MATERIALS

****

1-526-565-00	(E)....AC PLUG ADAPTOR
1-528-231-11	BATTERY,NICKEL CADMIUM(NC-6WM)
1-528-234-11	(E)....BATTERY,CHARGER (BC-7L)
1-528-250-11	(Canadian)....BATTERY,CHARGER (BC-7S)
1-528-251-11	(AEP)....BATTERY CHARGER (BC-7S)
1-528-252-11	(UK)....BATTERY,CHARGER (BC-7S)
1-528-321-11	(US)....BATTERY,CHARGER (BC-7AU)
*3-343-562-01	CUSHION
*3-343-564-01	INDIVIDUAL CARTON
3-357-196-01	CASE, CARRYING
3-751-279-11	(Canadian, AEP, UK, E).... MANUAL, INSTRUCTION
3-751-279-21	(US)....MANUAL, INSTRUCTION
3-751-279-41	(AEP)....MANUAL, INSTRUCTION
8-952-452-90	HEADPHONE MDR-E575/XG SET

Refer to MDR-E575 Service Manual issued previously for information of headphones supplied with this set.

English
90B0592-1
Printed in Japan
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9-955-580-11

Sony Corporation
Audio Group

Published by Cust mer Relations and Service Group

WM-DD9

SONY
SERVICE MANUAL

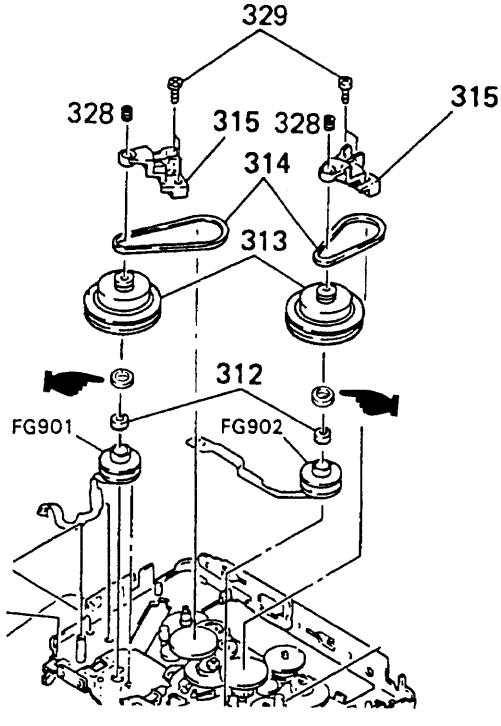
US Model
Canadian Model
AEP Model
UK Model
E Model

CORRECTION-1

Correct your service manual as shown below.

☛ : **indicates corrected portion.**

Page	INCORRECT	CORRECT
	No. Part No. Description	Part No. Description
20	———	3-349-827-21 WASHER ☛



9-955-580-91

Sony Corporation
General Audio Group

English
92H05101-1
Printed in Japan

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Published by Customer Relations and Service Group